

# Viewer Configuration

Visual Collaboration supports viewing of file content in a variety of common formats. Different viewers with capabilities uniquely suited to the different file formats are provided. Options for configuring the behavior of the viewers are described in this section.

## Available Viewers

Aras Innovator provides five different viewers, depending on the type of file being viewed. Viewers are accessed from the sidebar of the item window. The following configuration steps are necessary for files to be accessible on the sidebar:

- The ItemType must be enabled for Secure Social (see Enabling an ItemType for Secure Social)
- A FileSelectorTemplate must be defined, and set to include in the IDs of desired FileTypes in the *Filter* property (see File Selector Template)
- A file with the specific FileType must be added to the Item at the *Reference* location as specified on the FileSelectorTemplate

This table describes the viewers that are provided and support the listed FileTypes.

Provided viewers

| Sidebar Display                                                                     | Viewer | FileType(s)                     | FileType(s)                     | Extension(s) |
|-------------------------------------------------------------------------------------|--------|---------------------------------|---------------------------------|--------------|
|  | 3D     | HOOPS Stream Cache Single Model | HOOPS Stream Cache Single Model | scs          |
|  | PDF    | PDF Document                    | PDF Document                    | pdf          |
|  | Image  | JPEG Image                      | JPEG Image                      | jpg, jpeg    |
|  | Image  | PNG Image                       | PNG Image                       | png          |
|  | Image  | GIF Image                       | GIF Image                       | gif          |



|                                                                                   |                |                                                                                                   |                                                                                                   |                                                                                                   |
|-----------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|  | Advanced Image | TIFF Image                                                                                        | TIFF Image                                                                                        | tif,tiff                                                                                          |
|  | Advanced Image | BMP Image                                                                                         | BMP Image                                                                                         | bmp                                                                                               |
|  | Comparison     | Special viewer created dynamically when using the Compare function on PDF or Advanced Image files | Special viewer created dynamically when using the Compare function on PDF or Advanced Image files | Special viewer created dynamically when using the Compare function on PDF or Advanced Image files |
|  | Simulation     | wCAX VCollab WEB                                                                                  | wcax                                                                                              | wcax                                                                                              |

Any of the discussed FileTypes can be supported for viewing on *any* Aras Innovator ItemType, given the proper configuration.

#### Important

Standard Aras ItemTypes are not currently configured to display the TIFF and BMP files. Administrators must configure ItemTypes to include these FileTypes if desired, using the instructions in section File Selector Template.

## Converting and Viewing 3D CAD Files

The use of the 3D viewer requires conversion of native 3D CAD models to the format used by the viewer (hmf). This is done using the Aras 3D CAD to PDF Converter, which runs inside the Aras Conversion Server. This converter takes any standard native 3D CAD files as input and runs a conversion process in the background. In the typical case, these input native 3D CAD files are coming from an Aras CAD Connector.

#### Important

For more information on the CAD to PDF Conversion Server, refer to the topic *Configuring the Conversion Server* from the *Aras 3DVisualization - CAD to PDF Converter Setup Guide* document.

By default, the Aras 3D CAD to PDF Converter will produce as output the following set of files, which will be set to the listed properties on the **CAD Document** Item.

### Supported FileTypes



| FileType           | Extension | CAD Property                          | Purpose                                  |
|--------------------|-----------|---------------------------------------|------------------------------------------|
| HOOPS Stream       | scs       | native_file > fr_representation >     | Viewing within Aras Visual Collaboration |
| Cache Single Model |           | fr_representation_file > related_file |                                          |
| PNG Image          | png       | thumbnail                             | Thumbnail image                          |
| 3D PDF Document    | pdf       | viewable_file                         | Viewing within Adobe Reader              |
| PRC Model          | prc       | monolithic_model_file                 | Neutral 3D representation                |

#### Important

For more information on the CAD data model and file representations, refer to the *CAD Data Model* section in the *Aras 3D Visualization - Administrator Guide*.

Note that unlike the Aras PDF viewer, the 3D viewer does not view the 3D PDF file directly. The 3D PDF file is made available for other purposes, such as sending outside the company to those without direct access to Aras Innovator, for viewing in Adobe Reader. If the requirement is just to view 3D inside Aras Visual Collaboration, the generation of the 3D PDF file can be disabled. See the **Aras 3D Visualization CAD to PDF Converter Setup Guide** for details. This also means that 3D viewing in Visual Collaboration cannot be achieved just by attaching a 3D PDF file to an item. The 3D viewer requires the scs format, which must be generated by the converter. Please contact Aras Support with any questions regarding the ability to convert and view 3D models.

#### Setting the Proper FileType for 3D PDF Files

The Aras PDF viewer is only designed to view “standard” PDF files and not 3D PDF files. Therefore, it is important that 3D PDF files be set as a separate FileType in Aras Innovator, because otherwise the PDF viewer will attempt to view them. The two standard FileType definitions exist in Aras Innovator, both with the **.pdf** extension. 3D PDF files generated by the Aras 3D CAD to PDF Converter are automatically set to the **3D PDF Document** FileType. However, if a 3D PDF file is manually attached to an item, it will be set to the **PDF Document** FileType. Administrators should be aware that files manually attached in this way may show up in the sidebar as an available PDF file for viewing. Users will see only a static image of the 3D model in this case.

#### PDF FileTypes

| FileType     | Description                | Ext. |
|--------------|----------------------------|------|
| PDF Document | Adobe Acrobat PDF Document | pdf  |



### Browser Compliance Check for 3D Viewing

The 3D viewer is only supported on HTML5-compliant browsers including Firefox, Edge, and Chrome. Since Aras Innovator is supported on some browsers that do not meet this requirement, the system checks for the browser compliance when the user attempts to use the 3D viewer.

There are two cases where this check is made:

- When the user clicks on a file in the 3D viewer tab in the item window sidebar.
- When the user clicks on the View button when a markup snapshot is active in the viewer.

In each case, the user sees an error message that displays: **This web browser does not support 3D viewing. Please use a supported browser to view this file.**

### Measurement Units Settings for Viewers

Both the PDF Viewer and Advanced Image Viewer provide a Measure command. Within this command is a selector to pick which measurement units to use. This list is based upon the entries specified by “Measurement Units” as found in **Contents --> Administration --> Secure Social**. By modifying these Items, you can control the entries in the list, their order, and the default.

Measurement U... x

Measurement Units

Search

Clear

Simple

|  | Sequence | Viewer [...]                   | Unit       | Units       | Abbreviation | Ratio to Inch | Default                             |
|--|----------|--------------------------------|------------|-------------|--------------|---------------|-------------------------------------|
|  |          |                                |            |             |              |               |                                     |
|  | 1        | <a href="#">PDF Viewer</a>     | Millimeter | Millimeters | MM           | 25.4          | <input checked="" type="checkbox"/> |
|  | 2        | <a href="#">PDF Viewer</a>     | Centimeter | Centimeters | CM           | 2.54          | <input type="checkbox"/>            |
|  | 3        | <a href="#">PDF Viewer</a>     | Inch       | Inches      | IN           | 1             | <input type="checkbox"/>            |
|  | 4        | <a href="#">PDF Viewer</a>     | Foot       | Feet        | FT           | 0.0833333     | <input type="checkbox"/>            |
|  | 5        | <a href="#">PDF Viewer</a>     | Yard       | Yards       | YD           | 0.0277778     | <input type="checkbox"/>            |
|  | 6        | <a href="#">PDF Viewer</a>     | Meter      | Meters      | M            | 0.0254        | <input type="checkbox"/>            |
|  | 7        | <a href="#">PDF Viewer</a>     | Kilometer  | Kilometers  | KM           | 0.0000254     | <input type="checkbox"/>            |
|  | 8        | <a href="#">PDF Viewer</a>     | Mile       | Miles       | MI           | 0.0000157828  | <input type="checkbox"/>            |
|  | 101      | <a href="#">Advanced Im...</a> | Millimeter | Millimeters | MM           | 25.4          | <input checked="" type="checkbox"/> |
|  | 102      | <a href="#">Advanced Im...</a> | Centimeter | Centimeters | CM           | 2.54          | <input type="checkbox"/>            |
|  | 103      | <a href="#">Advanced Im...</a> | Inch       | Inches      | IN           | 1             | <input type="checkbox"/>            |
|  | 104      | <a href="#">Advanced Im...</a> | Foot       | Feet        | FT           | 0.0833333     | <input type="checkbox"/>            |
|  | 105      | <a href="#">Advanced Im...</a> | Yard       | Yards       | YD           | 0.0277778     | <input type="checkbox"/>            |

## Configuring Viewer Toolbars

All viewers support two styles of toolbars:

- **Basic:** has only a few commands to make it easy to use for occasional users.

3.4 *Nulla et dui bibendum, venenatis risus hendrerit, vulputate dolor.*

Aliquam porta sem sit amet ligula egestas, nec tristique risus tempus. Nunc eu vulputate magna. Curabitur scelerisque felis tempus eleifend tristique. Pellentesque quis euismod nulla, viverra venenatis turpis. Mauris non nibh odio. Praesent tincidunt vestibulum neque, at rhoncus sapien accumsan at. Vestibulum fermentum mauris a nisl congue, id gravida risus facilisis. Etiam eget dolor fringilla, mollis tellus sit amet, efficitur ipsum.

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- Aliquam faucibus consequat arcu at volutpat.
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3.5 *Maecenas placerat felis ut dui pretium*

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Both types of toolbars are configurable based on the Aras “Command Bar” modeling capability. With this ability, the content of the toolbars can be configured based on the user’s Identity as well as item Classification. This can enable some important behaviors, such as:

- Force users to only use one or the other style of viewer toolbars (remove “Switch to Standard” or “Switch to Basic” commands).
- Remove user’s ability to download and print files, restricting them to access only in the Aras web client.
- Removal of any viewer command for any user or set of users.

## Configuring Browsers for Printable View

The PDF, Image, and Advanced Image viewers provide a Printable View command which allows the user to easily view and then print the file. This command uses any available client-side PDF viewer and will use whatever is configured for the web browser in use. The quality of client-side PDF viewers varies significantly, and content displayed in some of these viewers may not match the quality of the display provided from within the Visual Collaboration PDF viewer. As a result, Aras recommends setting the browser’s PDF viewer add-on to Adobe Reader or Adobe Acrobat for best results when printing. Please consult your specific web browser’s help documentation for information on setting the PDF viewer add-on.

## Configuring the Simulation Viewer

The Simulation Viewer can be configured to view files with the **.wcax** extension. A WCAX file must be generated using VCollab products ( <https://www.vcollab.com/> ).

The following steps describe how to configure the viewer for the **Document** ItemType; the same steps would work for any other ItemType.

1. Login to Aras Innovator as an administrator.
2. Go to Contents --> Administration --> ItemTypes.
3. Open the **Document** ItemType for editing.
4. Go to the **Secure Social** tab.



Document x

Document ☆

Save Done Discard

Item Type

Name: Document  
Singular Label: Document  
Show Parameters Tab: Never  
Class Structure

History Template: Default  
Plural Label: Documents  
Default Structure View: Tabs On  
Small Icon: Select an image...

Versioning  
Versionable ☒  
Discipline: Automatic  
Revisions: Default

Search  
Auto Search ☐  
Default Page Size: 25  
Max Records

Unlock On Logout ☐  
Dependent ☐  
Is Relationship ☐  
Enforce Discovery ☒  
Use Src Access ☐  
Allow Private Permissions ☒

Implementation Type  
Single Item ☒  
Poly Item ☐  
Federated Item ☐  
Secure Social Enabled

Server Events Actions Life Cycles Workflows TOC Access TOC View Client Events Can Add Permissions Reports Poly Sources Client Style **Secure Social**

DiscussionTemplate ☆

Hidden

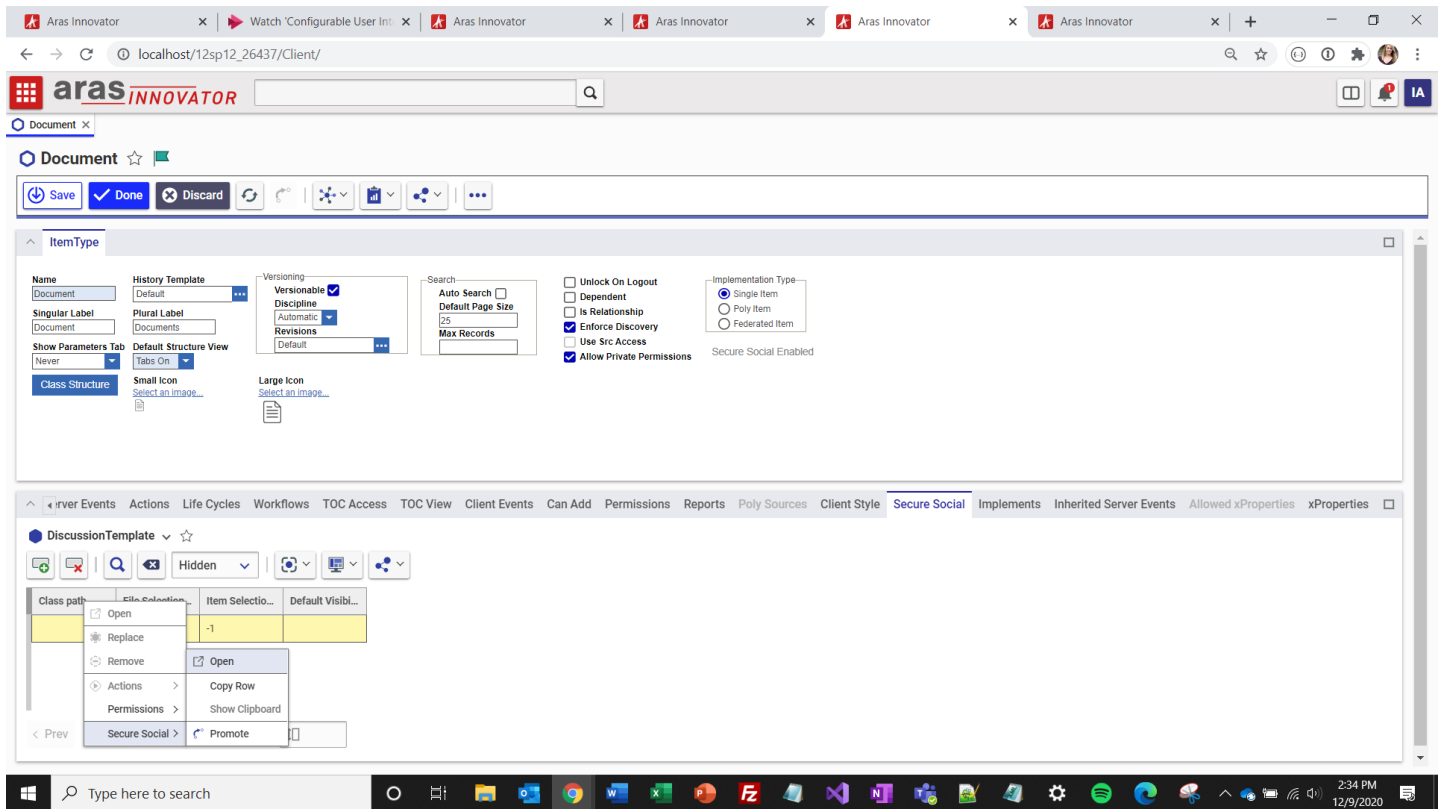
| Class path | File Selection... | Item Selectio... | Default Visibi... |
|------------|-------------------|------------------|-------------------|
|            | -1                | -1               |                   |

< Prev Next > Page: 1 of 1 1 Results

5. Right-click the **DiscussionTemplate** and click **Secure Social** --> **Open** in the context menu.

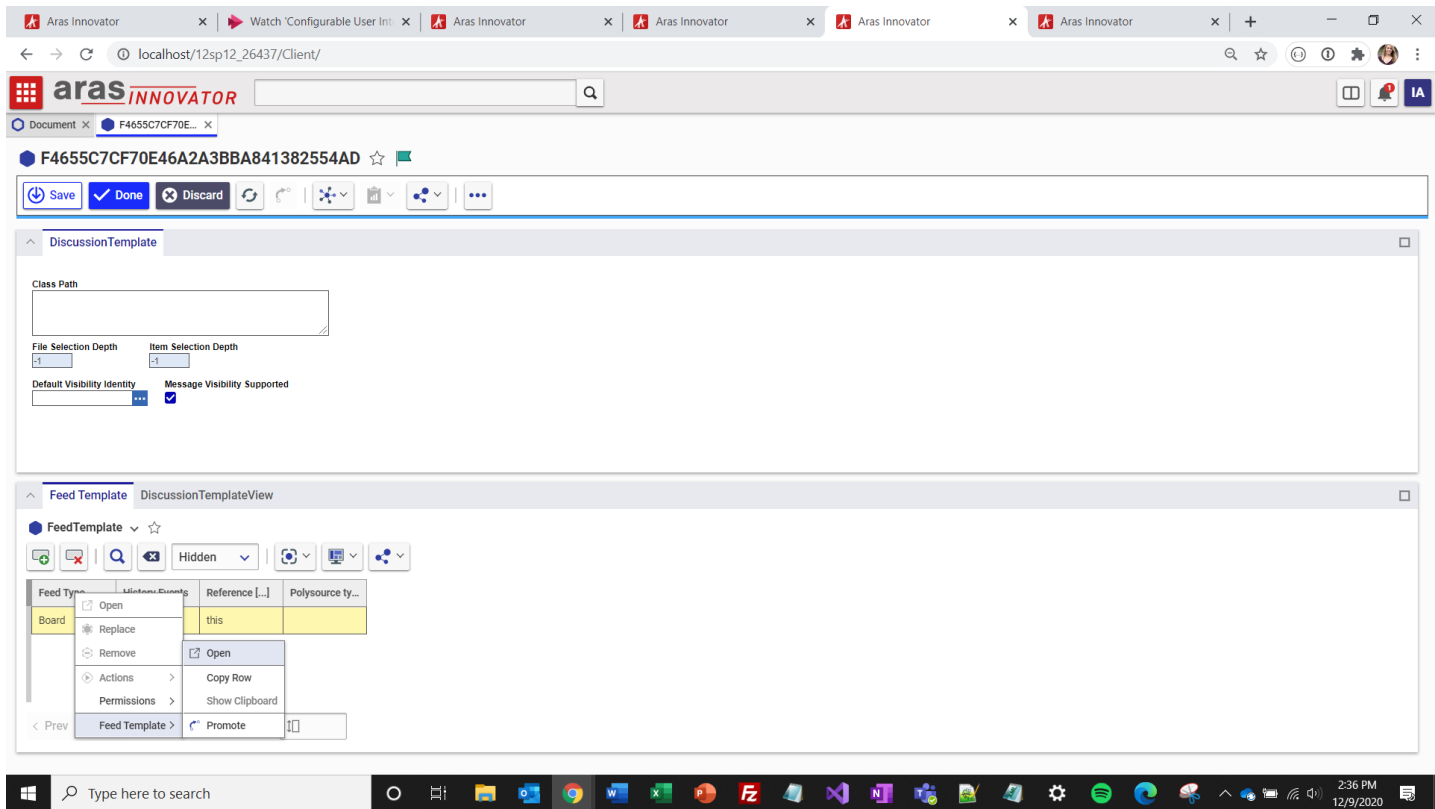






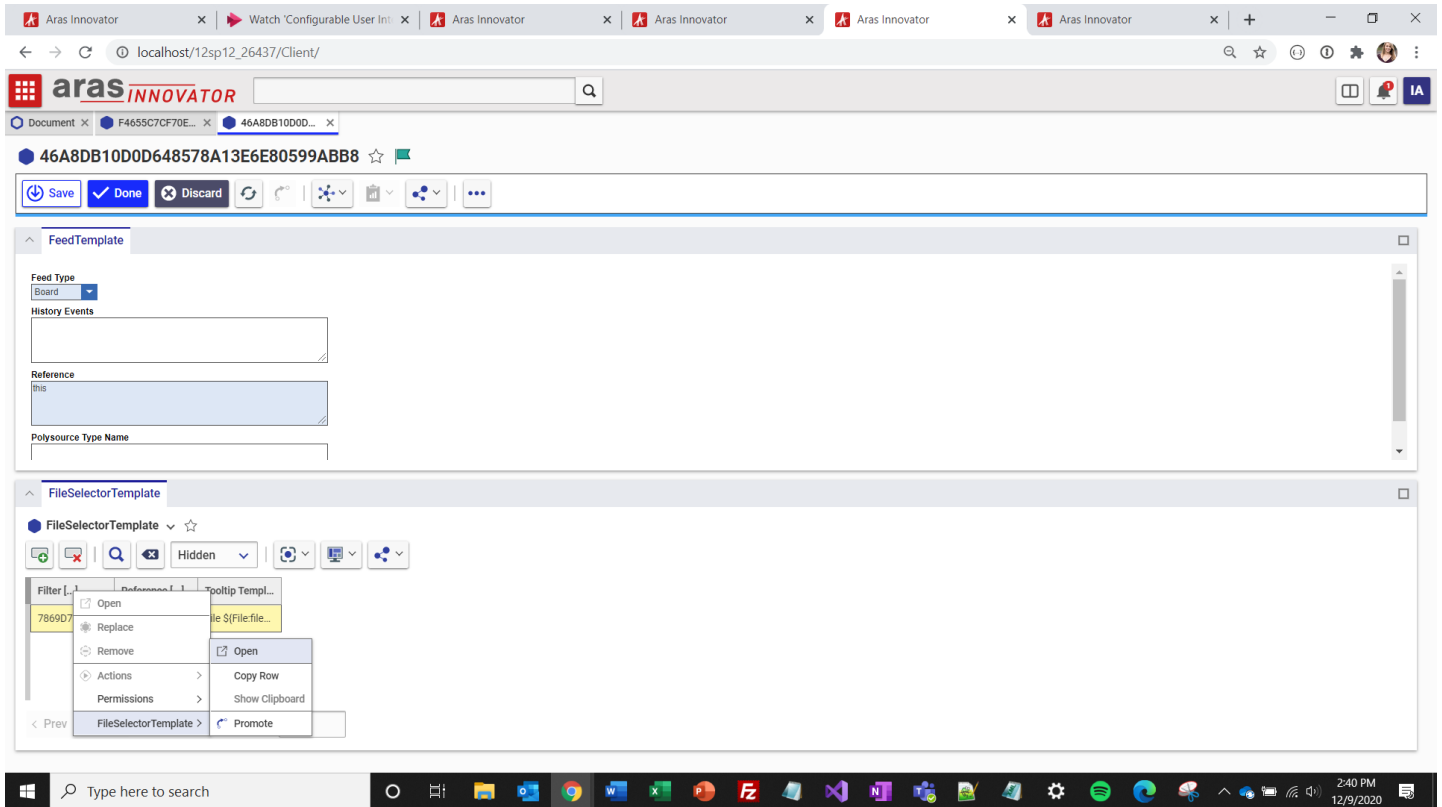
6. Click Edit in DiscussionTemplate.
7. Click the FeedTemplate tab.
8. Right-click the **FeedTemplate** and click **FeedTemplate --> Open** in the context menu.





9. Click Edit in the FeedTemplate.
10. Click the FeedSelectorTemplate tab.
11. Right-click the **FileSelectorTemplate** and click **FileSelectorTemplate --> Open** in the context menu.

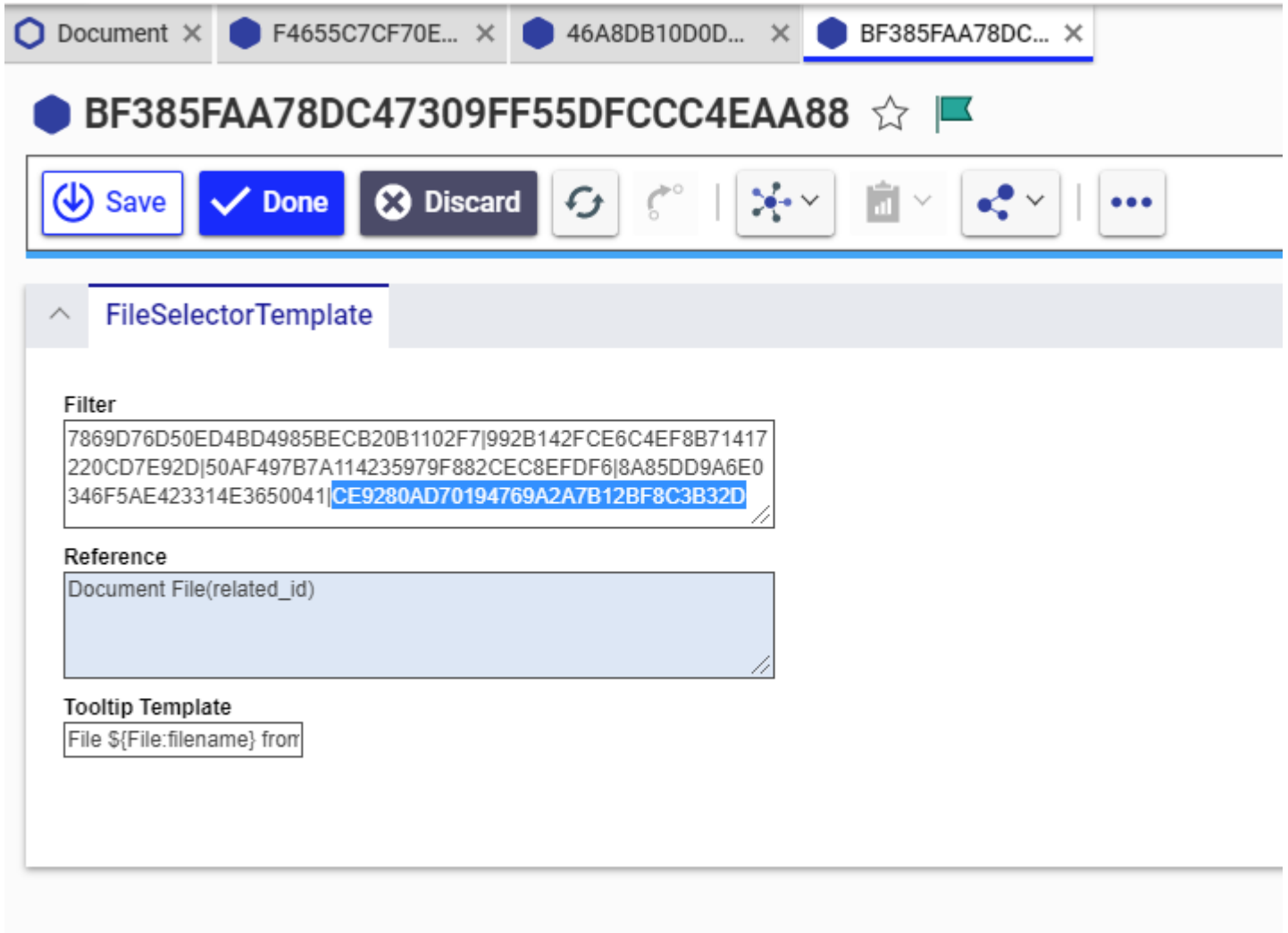




12. Click Edit in the FileSelectorTemplate.

13. In the **Filter** dialog box, add the **item ID** after the **or** operator for the **FileType: wCAX 3D Model**, which is: **CE9280AD70194769A2A7B12BF8C3B32D**.





14. Click Save and Done on the FileSelectorTemplate, FeedTemplate, Discussion Template, and ItemType (Document) toolbars.
15. When **wCAD 3D Models** with the **.wcax** extension are added to **Documents**, the **Simulation Viewer** will appear in the sidebar.



Aras Innovator

localhost/12sp14\_27888/Client/

Document 1

1 File(s) for Simulation Viewer

Document 1

Name: Document 1

Type: Authoring Tool

Description:

Assigned Creator:

Designated User:

Effective Date:

From Template:

Files Attached: ☒

Changes Pending: ☐

Template: ☐

Files

Related File

File Type

Comments

Sequence

Is Shared

Indexed On

Airbag\_v...

wCAX 3D Model

1

Is Shared: ☒

Page: 1 of 1 | 1 Results

15. Click the **Simulation Viewer** button in the sidebar to view the attached file in the viewer.

Document 1

Document 1

Simulation Viewer

g3plot Displacement: Resultant L18M0-Times80.001

734.50

692.50

650.50

608.50

566.50

524.50

482.50

440.50

398.50

356.50

314.51

272.51

230.51

188.51

146.51